

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
Sheet	1	of	4	Application Number	10/582,288	
				Filing Date	December 14, 2006	
				First Named Inventor	James C. Jamieson.	
				Art Unit	1651	
				Examiner Name	Taeyoon Kim	
				Attorney Docket Number	R131 1010.1	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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	F1	WO 03/066086	08-14-2003	Karsten		
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NON PATENT LITERATURE DOCUMENTS			
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	D1	Alexander et al., 1976, "Subcellular localization of B apoprotein of plasma lipoproteins in rat liver," J. Cell Biol. 69: 241-263	
	D2	Antonny et al., 1997, "Activation of ADP-ribosylation factor 1 GTPase-activating protein by phosphatidylcholine-derived diacylglycerols," J. Biol. Chem., 272, 30848-30351	
	D3	Asp et al., 2000, "ADP-ribosylation factor 1 and its activation of phospholipase D are important for the assembly of very low density lipoproteins", J. Biol Chem: 275, 26285-26292	
	D4	Balsinde, 2002, "Roles of various phospholipases A2 in providing lysophospholipid acceptors for fatty acid phospholipid incorporation and remodeling," Biochem J. 364: 695-702	
	D5	Biederbick et al., 1995, "Monodansylcadaverine (MDC) is a specific in vivo marker for autophagic vacuoles," Eur.J.Cell Bio. 66: 3-14	
	D6	Blanchette-Mackie et al., 1995, "Perilipin is located on the surface layer of intracellular lipid droplets in adipocytes," J.Lipid Res., 36: 1211-1226	
	D7	Burnett et al., 2003, "A novel nontruncating APOB gene mutation, R463W, causes familial hypobetalipoproteinemia," J.Biol Chem. 278: 13442-13452	
	D8	Chernomordik, L., M. M. Kozlov, and J. Zimmerberg, 1995, "Lipids in biological membrane fusion," J.Membr. Biol. 146:1-14	
	D9	Cui et al, 1995, "Expression of phosphatidylethanolamine N-methyltransferase-2 in McArdle-RH7777 hepatoma cells inhibits the CDP-choline pathway for phosphatidylcholine biosynthesis via decreased gene expression of CTP:phosphocholine cytidylyltransferase," Biochem J., 312: 939-945	
	D10	Daleke 2003, "Regulation of transbilayer plasma membrane phospholipid asymmetry," J.Lipd Res, 44: 233-242	
	D11	Dashti et al., 2002, "The N-terminal 1000 residues of apolipoprotein B associate with microsomal triglyceride transfer protein to create a lipid transfer pocket required for lipoprotein assembly," Biochemistry, 41: 6978-6987	
	D12	DeLong et al., 1999, "Molecular distinction of phosphatidylcholine synthesis between the CDP-choline pathway and phosphatidylethanolamine methylation pathway," J.Biol. Chem. 274: 29683-29688	
	D13	Fisher et al., 2001, "The triple threat to nascent apolipoprotein B. Evidence for multiple, distinct degradative pathways," J.Biol. Chem. 276: 27855-27863	
	D14	Fisher et al., 1998, "Apolipoprotein B metabolism in hypertriglyceridemic diabetic patients administered either a fish oil- or a vegetable oil-enriched diet," J. Lipid Res. 39: 388-401	
	D15	Fisher and Ginsberg, 2002, "Complexity in the secretory pathway: the assembly and secretion of apolipoprotein B-containing lipoproteins," J. Biol. Chem. 277: 17377-17380	
	D16	Gusarova et al., 2003, "Apolipoprotein B100 exit from the endoplasmic reticulum (ER) is COPII-dependent, and its lipidation to very low density lipoprotein occurs post-ER," J.Biol. Chem. 278: 48051-48058	
	D17	Harris, 1999, "n-3 fatty acids and human lipoprotein metabolism: an update," Lipids Suppl 34: S257-S258	
	D18	Hebbachi and Gibbons, 2001, "Microsomal membrane-associated apoB is the direct precursor of secreted VLDL in primary cultures of rat hepatocytes," J.Lipid Res. 42: 1609-1617	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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	D19	Hsu et al., 2000, "Effect of n-3 fatty acids on the composition and binding properties of lipoproteins in hypertriglyceridemic patients," Am.J. Clin. Nutr. 71: 28-35	
	D20	Ichimura et al., 2000, "A ubiquitin-like system mediates protein lipidation," Nature 408: 488-492	
	D21	Kabeya et al., 2000, "LC3, a mammalian homologue of yeast Apg8p, is localized in autophagosome membranes after processing," EMBO J. 19 (21): 5720-5728	
	D22	Klionsky and Emr, 2000, "Cell biology – Autophagy as a regulated pathway of cellular degradation," Science 290: 1717-1721	
	D23	Kotkat et al., 1999, "Effect of dietary fish oil (active EPA-30) on liver phospholipids in young and aged rats," Comp Biochem. Physiol A Mol. Integr. Physiol 122: 283-289	
	D24	Lang and Davis, 1990, "Fish oil fatty acids impair VLDL assembly and/or secretion by cultured rat hepatocytes," J. Lipid Res. 31: 2079-2086	
	D25	McLeod et al. 1996, "Apolipoprotein B sequence requirements for hepatic very low density lipoprotein assembly. Evidence that hydrophobic sequences within apolipoprotein B48 mediate lipid recruitment," J. Biol. Chem 271: 18445-18455	
	D26	McLeod et al., 1994, "Carboxyl-terminal truncation impairs lipid recruitment by apolipoprotein B100 but does not affect secretion of the truncated apolipoprotein B-containing lipoproteins," J. Biol. Chem. 269: 2852-2862	
	D27	Morrisett et al., 2002, "Effects of Sirolimus on Plasma Lipids, Lipoproteins, and Fatty Acid Metabolism in Renal Transplant Patients," J. Lipid Res 43: 1170-1180	
	D28	Mizushima et al., 2003, "Role of the Apg12 conjugation system in mammalian autophagy," Int. J. Biochem. And Cell Biology 35: 553-561	
	D29	Mizushima et al., 2001, "Dissection of autophagosome formation using Apg5-deficient mouse embryonic stem cells," J. CellBiol., 152(4): 657-668	
	D30	Murphy and Vance, 1999, "Mechanisms of lipid-body formation," Trends Biochem. Sci. 24: 109-115	
	D31	Nestel et al., 1984, "Suppression by diets rich in fish oil of very low density lipoprotein production in man," J. Clin. Invest. 74: 82-89	
	D32	Nishimaki-Mogami et al., 2002, "Inhibition of phosphatidylcholine synthesis via the phosphatidylethanolamine methylation pathway impairs incorporation of bulk lipids into VLDL in cultured rat hepatocytes," J. Lipid Res. 43: 1035-1045	
	D33	Noga et al., 2002, "An unexpected requirement for phosphatidylethanolamine N-methyltransferase in the secretion of very low density lipoproteins," J. Biol. Chem., 277: 42358-42365	
	D34	Packard and Shepherd, 1997, "Lipoprotein heterogeneity and apolipoprotein B metabolism," Arterioscler. Thromb. Vasc. Biol. 17: 3542-3556	
	D35	Parks et al., 1989, "Fish oil decreases hepatic cholesteryl ester secretion but not apoB secretion in African green monkeys," J. Lipid Res. 30: 1535-1544	
	D36	Parks et al., 1990, "Effect of fish oil diet on hepatic lipid metabolism in nonhuman primates: lowering of secretion of hepatic triglyceride but not apoB," J. Lipid Res. 31: 455-466	
	D37	Phung et al., 1997, "Phosphoinositide 3-kinase activity is necessary for insulin-dependent inhibition of apolipoprotein B secretion by rat hepatocytes and localizes to the endoplasmic reticulum," J.Biol. Chem. 272: 30693-30702	
	D38	Reggiori and Klionsky 2002, "Autophagy in the eukaryotic cell," Eukaryot. Cell 1(1): 11-21	
	D39	Rustaeus et al., 1999, "Assembly of very low density lipoprotein: a two-step process of apolipoprotein B core lipidation," J. Nutr. 129: 463S-466S	

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	D40	Rustaeus et al., 1998, "The microsomal triglyceride transfer protein catalyzes the post-translational assembly of apolipoprotein B-100 very low density lipoprotein in McA-RH7777 cells," J. Biol. Chem. 273: 5196-5203			
	D41	Shelness and Sellers, 2001, "Very-low density lipoprotein assembly and secretion," Curr. Opin. Lipidol. 12(2): 151-157			
	D42	Stillemark et al., 2000, "The assembly and secretion of apolipoprotein B-48-containing very low density lipoproteins in McA-RH7777 cells," J.Biol.Chem. 275: 10506-10513			
	D43	Stromhaug et al., 1998, "Purification and characterization of autophagosomes from rat hepatocytes," Biochem. J. 335: 217-224			
	D44	Sullivan et al., 1986, "Paradoxical elevation of idl apoprotein - b levels in hypertriglyceridemic patients and normal subjects ingesting fish oil atherosclerosis," Atherosclerosis, 61: 129-134			
	D45	Tran et al., 1998, "Functional analysis of disulfide linkages clustered within the amino terminus of human apolipoprotein B," J. Biol. Chem. 273: 7244-7251			
	D46	Tran et al., 2000, "The assembly of very low density lipoproteins in rat hepatoma McA-RH7777 cells is inhibited by phospholipase A2 antagonists," J.Biol.Chem. 275: 25023-25030			
	D47	Tran et al., 2002, "Intracellular assembly of very low density lipoproteins containing apolipoprotein B100 in rat hepatoma McA-RH7777 cells," J.Biol.Chem. 277: 31187-31200			
	D48	Ueno et al., 1991, "Membrane markers of endoplasmic reticulum preserved in autophagic vacuolar membranes isolated from leupeptin-administered rat liver," J.Biol.Chem. 266: 18995-18999			
	D49	Verkade et al., 1993, "Impaired biosynthesis of phosphatidylcholine causes a decrease in the number of very low density lipoprotein particles in the Golgi but not in the endoplasmic reticulum of rat liver," J.Biol.Chem. 268(33): 24990-24996			
	D50	Vukmirica et al., 2002, "The N-linked oligosaccharides at the amino terminus of human apoB are important for the assembly and secretion of VLDL," J. Lipid Res. 43: 1496-1507			
	D51	Wang et al., 1995, "Degradation of apolipoprotein B in cultured rat hepatocytes occurs in a post-endoplasmic reticulum compartment," J.Biol.Chem 270: 24924-24931			
	D52	Wang et al, 1999, "The activity of microsomal triglyceride transfer protein is essential for accumulation of triglyceride within microsomes in McA-RH7777 cells. A unified model for the assembly of very low density lipoproteins," J.Biol. Chem. 274: 27793-27800			
	D53	Wong and Nestel, 1987, "Eicosapentaenoic acid inhibits the secretion of triacylglycerol and of apoprotein B and the binding of LDL in Hep G2 cells," Atherosclerosis 64: 139-146			
	D54	Yao et al., 1997, "Intracellular degradation of newly synthesized apolipoprotein B," J. Lipid Res. 38: 1937-1953			
	D55	Yao and Vance, 1988, "The active synthesis of phosphatidylcholine is required for very low density lipoprotein secretion from rat hepatocytes," J.Biol. Chem. 263: 2998-3004			
	D56	Yamamoto et al., 1990, "Characterization of the isolation membranes and the limiting membranes of autophagosomes in rat hepatocytes by lectin cytochemistry," J. Histochem. Cytochem. 38: 573-580			
	D57	Zhang et al., 2002, "Creating new, fluorescent probes for cell biology," Nat. Rev.Mol. Cell. Biol. 3: 906-918			
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